

CLAIMS

3. (Amended) Apparatus as claimed in Claim 1 wherein the laser frequency is varied by physical alteration of a secondary cavity such as a crystal provided to double the primary frequency.

4. (Amended) Apparatus as claimed in Claim 1 wherein the modulation frequency is a harmonic of the beat frequency.

5. (Amended) Apparatus as claimed in Claim 1 wherein the modulation frequency is a harmonic of a specific molecular resonance.

6. (Amended) Apparatus as claimed in Claim 1 wherein the aperture or angle of the beam passage through the cancellation device may be varied consequently varying the beat frequency.

7. (Amended) Apparatus as claimed in Claim 1 wherein the selected portion of the beam may be varied to alter the balance between constructive and destructive nodes.

8. (Amended) Apparatus as claimed in Claim 1 wherein the means for modulating the laser frequency is the consequential mode transition of a laser diode in pulse mode.

201220-25069001

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